

AA

PATENT ABSTRACTS OF JAPAN(11)Publication number : **2002-147551**(43)Date of publication of application : **22.05.2002**

(51)Int.Cl.

F16H 7/08**F02B 67/06**(21)Application number : **2001-276984**(71)Applicant : **MORSE TEC EUROP SPA**(22)Date of filing : **12.09.2001**(72)Inventor : **ROSSATO FRANCESCO****REDAELLI DANIELE****CAPUCCI GERMINAL E**

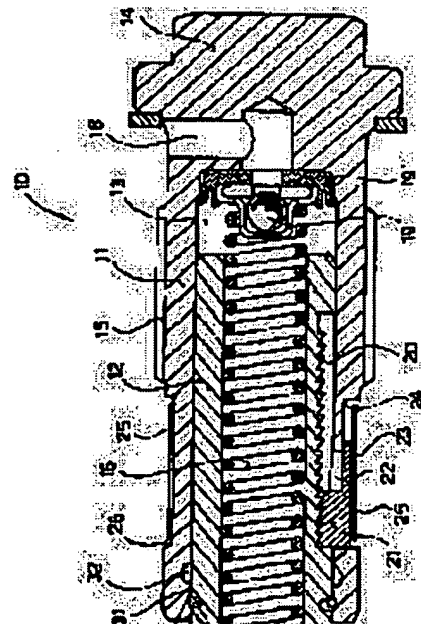
(30)Priority

Priority number : **2000 00830616** Priority date : **13.09.2000** Priority country : **EP****(54) CARTRIDGE TYPE TENSIONER**

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a low-cost cartridge type tensioner of simple structure provided with a nonreturn device for a piston.

SOLUTION: This cartridge type tensioner 10 is provided with a cylinder 11, the hollow piston 12 axially slidable in a hole 13 of the cylinder 11, and a compression spring 16 for energizing the piston 12 in a direction of projecting from the cylinder 11. A skirt part of the piston 12 is provided with a vertical rack 20, and a toothed pad 21 engaged with the rack 20 is provided in a



hole 22 opened in a cylinder wall surface. The toothed pad 21 is energized to the side of the rack 20 by a spring 25 accommodated in a seat 26 of the cylinder 11.

LEGAL STATUS

[Date of request for examination] 06.08.2002

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office